# <u>MERGE<sup>™</sup> 3.0</u> FLANGELESS RECESSED LINEAR CHANNELS

TECH LIGHTING



ELEMENT Merge 3.0 represents the marriage of a recessed linear LED system with a low-voltage track lighting system. Whether being used to highlight architectural elements, or deliver well-controlled general illumination, ELEMENT Merge 3.0 puts the focus on the room. Whether static white or programmable white, recessed lines of uniform, glare-free LED light can be designed to make 90° turns in the same plane or perpendicular transitions from ceiling to wall for enhanced architectural interest. Further, spot heads or pendants can be added directly into the channel at any point along its concealed low-voltage bus system for simultaneous accent or task illumination.

All ELEMENT Merge 3.0 components feature a beveled aperture to integrate seamlessly with architecture for sleek ceiling to fixture transitions. Available in 4', 6' and 8' lengths (with a number of connector options) for flanged, flangeless, or lay-in installation.

- Low profile design for use in 2x6 construction
- Custom linear lengths available (between 4' to 6'). Consult Quotes department.

· Internal reflector finished with high reflectance matte, white paint for even light distribution & optimal efficiency

• 3-Step or better color binning

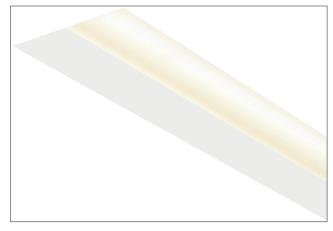
• IC airtight rated (EM housing Non-IC)

## SPECIFICATIONS

	HIGH OUTPUT	STANDARD OUTPUT	
DELIVERED LUMENS	1000 lms/ft	700 lms/ft	
WATTS	14 watts/ft	9 watts/ft	
EFFICACY	71 l/w (80CRI, 3500K)	78 l/w (80CRI, 3500K)	
CRI	80+,	90+	
CCT OPTIONS	2700K, 3000K, 3500K, or Programmable White (2700K-4000K)		
COLOR CONSISTENCY	3-Step		
VOLTAGE	120V or 277V (Concealed 10 gauge, low-voltage bus bar, order 12-volt remote transformer sold separately)		
DIMMING	ELV (Below 1% Standard) 0-10V (Down to 5%) Lutron Hi-Lume Ecosystem Fade-To-Black or PWM (Down to 1%) eldoLED 0-10V (Down to 0.1%)		
TRANSITIONS	Optional Illuminated 90° horizontal turns (same plane) or 90° ceiling-to-wall transitions		
CEILING APPEARANCE	Flangeless		
CEILING APERTURE	3" beveled aperture		
HOUSING	IC Airtight available in 4', 6' and 8'. IC suitable up to R60 spray foam insulation (Consult factory for Chicago Plenum). EM units available Non-IC only.		
POWER SUPPLY**	Constant Current (Each line self-contained ELV, 0-10V, L 2 Wire PWM (120V only) or Eco System Fade-to-Black D 0.1%	utron Hi-Lume Lutron Hi-Lume,	
CONSTRUCTION	Housing: 20 gauge sheet metal Extrusion: Aluminum		
FINISH	White Powder Coat		
GENERAL LISTING	ETL		
CALIFORNIA TITLE 24	Registered CEC Appliance D comply with CEC 2016 Title 90 CRI versions).		
LED LIFETIME	L70; 50,000 hours		
WARRANTY*	5 years		

\*Visit ELEMENT-lighting.com for specific warranty limitations and details. \*\*Consult Quotes Department for additional driver options.

Notes: Typical max run length is 80' for the channel; typical max run length is 40' for the low-voltage bus which can be powered from both sides for a total of 80'; system wattage will impact max run length



MERGE shown flangeless

## PERFORMANCE

STANDARD OUTPUT (700 LPF)		JT	HIGH OUTPUT (1000 LPF)		
LINEAR CHANNEL	FIXTURE OUTPUT (LMS) <sup>3</sup>	* WATTAGE	LINEAR CHANNEL	FIXTURE OUTPUT (LMS)*	WATTAGE
4 FT	2800	36	4 FT	4000	56
6 FT	4200	54	6 FT	6000	84
8 FT	5600	72	8 FT	8000	112
*REPRESENTS 3500K/80CRI			*REPRESENT	S 3500K/80CRI	

#### **O**ptional

• EM: integrated emergency battery back-up to provide illumination when main power is lost. EM battery is integrated in the Merge linear channel housing and provides 90 minutes of egress illumination. Each EM fixture ships with a test switch/indicator light for remote mounting.

- 4',6', & 8' EM linear channel: 1107 total lumens (illuminates 4' section of the 8' channel)

#### GRIDS

SYSTEM	NOMINAL LENGTH	TYPE	OUTPUT	CEILING APPEARANCE	CRI / COLOR TEMPERATURE	FINISH	CONTROLS	VOLTAGE	OPTIONAL
RLS3	4 4FT 6 6FT 8 8FT	S START M INTERMEDIATE E END I INDIVIDUAL	<ul> <li>7 700 LUMENS/FT</li> <li>1 1000 LUMENS/FT<sup>†</sup></li> </ul>	RL RECESSED FLANGELESS	827 80 CRI, 2700K 830 80 CRI, 3000K 935 80 CRI, 3500K 927 90 CRI, 2700K 930 90 CRI, 2700K 935 90 CRI, 3000K 82740 80 CRI, PROGRAMMABLE WHITE <sup>*</sup>	W MATTE WHITE	ELV         STANDARD ELV           010         0-10V DIMMING           ELDOLED 0.1%         0-10V LINEAR           ELDOLED 0.1%         0-10V LIDGARITHMIC           ELD1         ELDOLED 0.1%           0-10V LIDGARITHMIC         0-10V LIDGARITHMIC           ELD1         ELDOLED 1%           0-10V LIDGARITHMIC         0-10V LOGARITHMIC           HL2W         LUTRON HI-LUME           2 WIRE/PWMT         2 WIRE/PWMT           HLECO         LUTRON HI-LUME           EOL-T0-BLACK         FOB-LACK	1 120 VOLT 2 277 VOLT	LEAVE BLANK IF NO DESIRED OPTIONS -EM EMERGENCY BACK-UP WR REMOTE TEST SWITCH <sup>‡</sup> (NON-IC ONLY)
RLS3				RL		W			

\*0-10 VOLT DIMMING ONLY. \*\*HL2W – TWO WIRE LOW-VOLTAGE ELECTRONIC DIMMING, 120 VOLT ONLY. †1000 LMS/FT ONLY AVAILABLE IN STATIC WHITE AND ONLY WITH STANDARD ELV AND 0-10V DRIVERS. ‡EM OPTION ONLY AVAILABLE ON STATIC WHITE (NO PROGRAMMABLE WHITE).

# TRANSFORMERS\* (ORDERED SEPARATELY, WHEN POWERING LOW-VOLTAGE TRACK)

ITEM	DESCRIPTION	DIMMING
700AT060EL	ELECTRONIC, 60W, 120V	ELV
700AT152EL	ELECTRONIC, 150W, 120V	ELV
700AT152ELD010	ELECTRONIC, 150W, 120V	0-10V
700AT150T	MAGNETIC, 150W, 120V	MAGNETIC
700AT150T277	MAGNETIC, 150W, 277V	MAGNETIC
700AT302EL	ELECTRONIC, 300W, 120V	ELV
700AT300T	MAGNETIC, 300W, 120V	MAGNETIC
700AT300T277	MAGNETIC, 300W, 277V	MAGNETIC

DO NOT LOAD TRANSFORMER ABOVE 70% OF RATED LOAD DUE TO IN-RUSH CURRENT. \*CONSULT SPEC SHEETS FOR DIMENSIONS.

#### **PROJECT INFO**

FIXTURE TYPE & QUANTITY

JOB NAME & INFO

NOTES

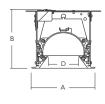
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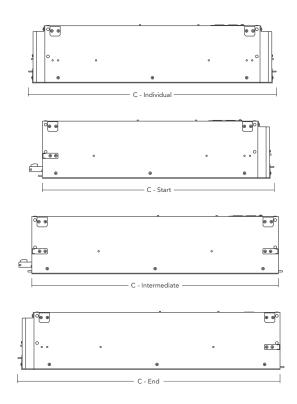
7400 Linder Avenue, Skokie, Illinois 60077 T 847.410.4400 F 847.410.4500

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# HOUSING\*



D=3.0"



# DIMENSIONS

	FL	ANGELE	SS
	А	В	С
4' INDIVIDUAL	6.32	5.64	48.30
4' START	6.32	5.64	46.65
4' INTERMEDIATE	6.32	5.64	48.00
4' END	6.32	5.64	49.65
6' INDIVIDUAL	6.32	5.64	72.30
6' START	6.32	5.64	70.65
6' INTERMEDIATE	6.32	5.64	72.00
6' END	6.32	5.64	73.65
8' INDIVIDUAL	6.32	5.64	96.30
8' START	6.32	5.64	94.65
8' INTERMEDIATE	6.32	5.64	96.00
8' END	6.32	5.64	97.65
AU 12			

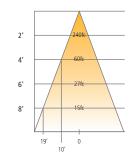
All dimensions given in inches.

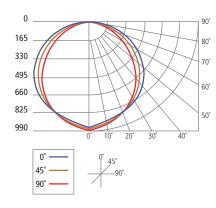
\*Continuous linear runs require a start unit, intermediate fixtures and end unit.

## PHOTOMETRICS: MERGE

DESCRIPTION:	Merge LED 4' Linear Channel 80 CRI, 3500K			
MODEL:	RLS34I7RL835WELV1			
INPUT POWER (WATTS): 35.5				
INPUT POWER FACTOR: 0.99				
ABSOLUTE LUMINOUS FLUX (LUMENS): 2750				
LUMEN EFFICACY (LUMENS PER WATT): 78				

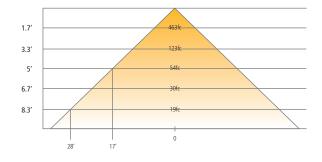
ANGLE	<b>0</b> °	45°	<b>90</b> °
0°	960	960	960
<b>5</b> °	944	953	976
10°	935	940	958
15°	920	918	933
20°	898	890	899
25°	869	855	859
30°	834	814	811
35°	793	766	756
40°	744	711	678
45°	689	648	589
50°	630	567	496
55°	566	475	404
60°	496	382	338
65°	419	292	268
70°	337	226	170
75°	249	139	48
80°	163	33	29
85°	78	15	13
90°	0	0	0

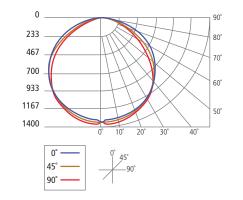




DESCRIPTION: Merge LED 4" Linear Channel 80 CRI, 3500K MODEL: RLS34I1RL835WELV1 High Output INPUT POWER (WATTS): 57.2 INPUT POWER FACTOR: 0.98 ABSOLUTE LUMINOUS FLUX (LUMENS): 4020 LUMEN EFFICACY (LUMENS PER WATT): 70

ANGLE	<b>0</b> °	45°	90°
<b>0</b> °	1338	1338	1338
5°	1313	1330	1363
10°	1302	1316	1348
15°	1281	1292	1322
<b>20°</b>	1251	1260	1286
25°	1213	1218	1240
30°	1165	1166	1184
35°	1110	1105	1114
40°	1044	1033	1014
45°	969	950	902
<b>50°</b>	887	840	778
55°	795	722	636
60°	695	590	516
<b>65</b> °	588	452	398
<b>70</b> °	468	334	255
75°	347	193	72
<b>80</b> °	226	47	44
<b>85</b> °	104	21	21
<b>90</b> °	4	2	2





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